

January 10, 2005

Reply to Office Action of September 9, 2004

In the Claims:

Please amend Claims 1, 3, and 13. A detailed listing of pending claims in the present application is provided, as follows:

- 1 1. (Currently Amended) A substantially non-aqueous electrostatically dispensable
2 disinfectant composition comprising an alcohol solvent component, ~~and~~ a glycol solute
3 component and a conductivity control component.
- 1 2. (Original) The composition of claim 1 wherein said alcohol component is selected
2 from the group consisting of ethanol, isopropanol, benzyl alcohol and combinations
3 thereof.
- 1 3. (Currently Amended) The composition of claim 1 ~~further including a~~ wherein said
2 conductivity control component is present in an amount effective to provide said
3 composition a conductivity of about 0.01 microsiemens per centimeter to about 1.0
4 microsiemens per centimeter.
- 1 4. (Original) The composition of claim 3 wherein said conductivity control
2 component is a fragrance component, present at about 10 weight percent to about 90
3 weight percent of said composition.
- 1 5. (Original) The composition of claim 1 wherein said glycol component is selected
2 from the group consisting of propylene glycol, dipropylene glycol, triethylene glycol and
3 combinations thereof, said glycol component present at about 5 weight percent to about
4 80 weight percent of said composition.

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1 6. (Original) The composition of claim 5 wherein said glycol component is
2 triethylene glycol.

1 7. (Original) The composition of claim 6 wherein said alcohol component is selected
2 from the group consisting of ethanol, isopropanol, benzyl alcohol and combinations
3 thereof, said alcohol component present at about 10 weight percent to about 80 weight
4 percent of said composition.

1 8. (Original) The composition of claim 7 wherein said alcohol component is ethanol,
2 present in an amount sufficient to provide said composition a viscosity of about 0.1
3 centipoise to about 50 centipoise.

1 9. (Original) A substantially non-aqueous disinfectant composition, said
2 composition comprising:
3 a glycol component present at about 5 weight percent to about 20 weight percent;
4 an alcohol component present at about 30 weight percent to about 70 weight
5 percent; and
6 a conductivity control component present at about 15 weight percent to about 50
7 weight percent, said control component present in an amount sufficient to provide said
8 composition a conductivity from about 0.01 microsiemens per centimeter to about 1.0
9 microsiemens per centimeter.

1 10. (Original) The composition of claim 9 wherein said glycol component is
2 triethylene glycol and said alcohol component is ethanol, said composition having a
3 viscosity of about 0.1 centipoise to about 50 centipoise.

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1 11. (Original) The composition of claim 9 wherein said conductivity control
2 component is selected from the group consisting of silicon oils, essential oils, fatty acid
3 esters, aliphatic materials and combinations thereof.

1 12. (Original) The composition of claim 11 wherein said conductivity control
2 component is an essential oil present in an amount sufficient to provide said composition
3 a conductivity of about 0.1 microsiemens per centimeter to about 0.2 microsiemens per
4 centimeter.

1 13. (Currently Amended) A system for electrostatic delivery of an antimicrobial
2 material, said system comprising:
3 a disinfectant composition comprising a glycol component, an alcohol component
4 and a conductivity control component; and
5 an electrostatic dispensing apparatus containing said disinfectant composition in a
6 liquid reservoir, said apparatus further including an electrostatic charging element, a
7 voltage source electrically connected to said element, and a dispenser providing said
8 disinfectant composition in proximity to said ~~electrode~~ element, said proximity sufficient
9 to electrostatically charge said composition.

1 14. (Original) The system of claim 13 wherein said disinfectant composition is
2 delivered in an amount sufficient to provide a 3-log reduction in airborne microbial
3 levels.

1 15. (Original) The system of claim 13 wherein said glycol component is present at
2 solute concentrations in said alcohol.

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1 16. (Original) The system of claim 15 wherein said glycol is triethylene glycol and
2 said composition is delivered at a rate of at least 0.1 grams per hour.

1 17. (Original) The system of claim 13 wherein said conductivity of said disinfectant
2 compositions about 0.01 microsiemens per centimeter to about 1.0 microsiemens per
3 centimeter.

1 18. (Original) A method of using a glycol to reduce airborne microbial levels, said
2 method comprising:
3 providing an electrostatically dispensable glycol;
4 charging said glycol composition with an apparatus comprising an electrode
5 conductively connected to a voltage source; and
6 dispensing said charged glycol composition in an amount and at a rate sufficient to
7 effect a 3-log reduction in airborne microbial levels.

1 19. (Original) The method of claim 18 wherein said glycol composition comprises a
2 glycol dissolved in an alcohol, said glycol selected from the group consisting of
3 propylene glycol, dipropylene glycol, triethylene glycol and combinations thereof.

1 20. (Original) The method of claim 19 wherein said glycol is triethylene glycol, and
2 said dispensation rate is greater than about 0.1 grams per hour.

1 21. (Original) The method of claim 18 wherein said glycol composition includes a
2 conductivity control component present in an amount sufficient to provide said
3 composition a conductivity of about 0.01 microsiemens per centimeter to about 1.0
4 microsiemens per centimeter.

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1 22. (Original) A substantially non-aqueous disinfectant composition, said

2 composition comprising:

3 triethylene glycol present at about 10 weight percent to about 15 weight
4 percent of said composition, said glycol having an initial viscosity and an initial
5 conductivity;

6 ethanol present at about 45 weight percent to about 60 weight percent of
7 said composition, said ethanol present in an amount sufficient to dissolve said glycol,
8 said amount further sufficient to reduce said initial viscosity; and

9 a fragrance component present at about 20 weight percent to about 40
10 weight percent of said composition, said fragrance present in an amount sufficient to
11 reduce said initial conductivity,
12 said composition electrostatically dispensable, having a viscosity and a conductivity
13 sufficiently reduced to deliver said composition at a rate of at least about 0.1 grams per
14 hour to about 0.5 grams per hour.

1 23. (Original) The composition of claim 22 wherein said ethanol solvent and said
2 fragrance component are present in amounts sufficient to deliver said composition at a
3 rate of about 0.3 grams per hour.

1 24. (Original) The composition of claim 23 wherein said triethylene glycol is present
2 at about 13 weight percent of said composition, said ethanol is present at about 56 weight
3 percent of said composition, and said fragrance component is present at about 30 weight
4 percent of said composition.